

CLAIM AMENDMENT

Please amend the claims in accordance with the following listing.

Listing of Claims:

Claims 1-12 (Canceled)

13. (Currently Amended) A remote control transmitter ~~in accordance with claim 3, for enabling a user to control remotely a security system, the security system having a base unit with a communication module, the remote control transmitter comprising:~~

a processor;

a display coupled to the processor to display information to the user under control of the processor;

a first input device coupled to the processor to allow the processor to read state of the first input device, the state of the first input device being selected by the user;

a second input device coupled to the processor to allow the processor to read state of the second input device, the state of the second input device being selected by the user;

a transmitter coupled to the processor, the transmitter being capable of sending remote commands to the communication module of the base unit under control of the processor; and

a memory module coupled to the processor, the memory module storing code executed by the processor;

wherein:

the processor under control of the code displays to the user various menu items on the display, enables the user to scroll among the menu items to point to one of the menu items

using the first input device, and enables the user to select the menu item that is pointed to by using the second input device;

the transmitter sends commands to the communication module of the base unit over a wireless link;

the first input device comprises a scroll wheel with an internal push-to-activate switch operable by depressing the scroll wheel in a radial direction of the scroll wheel toward center of the scroll wheel and releasing the scroll wheel;

the user selects the state of the first input device by rotating the scroll wheel;

the second input device comprises the internal push-to-activate switch of the scroll wheel;

the user selects the state of the second user device by depressing and releasing the scroll wheel;

each of the menu items corresponds to at least one task of a plurality of tasks, the tasks of the plurality of tasks to be performed by the base unit and the remote control transmitter;

each task to be performed by the base unit corresponds to at least one of the remote commands;

the menu items comprise a screen inversion menu item, the plurality of tasks comprises a screen inversion task, the screen inversion menu item corresponds to the screen inversion task; and

the code executed by the processor causes the processor to perform the screen inversion task and invert the display when the screen inversion menu item is selected.

14. (Original) A remote control transmitter in accordance with claim 13, wherein the security system is a security system installed in a vehicle.

15. (Original) A remote control transmitter in accordance with claim 14, further comprising:
an outer housing for containing the processor, the display, the first and second input devices, the transmitter, and the memory module, the outer housing comprising a top surface, a bottom surface, and sidewalls;

wherein:

the display is disposed on the top surface of the outer housing; and

the scroll wheel is disposed on one of the sidewalls of the outer housing and protrudes from said one of the sidewalls.

16. (Original) A remote control transmitter in accordance with claim 15, wherein the top surface of the outer housing has a longer dimension and a shorter dimension substantially perpendicular to each other, the longer dimension being less than about 6 inches, the shorter dimension being less than about 4 inches.

17. (Original) A remote control transmitter in accordance with claim 15, wherein the longest dimension of the top surface of the outer housing is less than about 1.5 inches.

18. (Original) A remote control transmitter in accordance with claim 17, wherein the pressure needed to activate the internal switch is between about .15 and .75 ounces.

19. (Original) A remote control transmitter in accordance with claim 14, further comprising:

an outer housing for housing the processor, the display, the first and second input devices, the transmitter, and the memory module, the outer housing comprising a top surface, a bottom surface, and sidewalls;

wherein:

the display is disposed on the top surface of the outer housing; and

the scroll wheel is disposed on the top surface of the outer housing and protrudes from the top surface of the outer housing.

20. (Original) A remote control transmitter in accordance with claim 19, wherein the longest dimension of the top surface of the outer housing is less than about 1.5 inches.

21. (Original) A remote control transmitter in accordance with claim 20, wherein the pressure needed to activate the internal switch is between about .15 and .75 ounces.

Claims 22-28 (Canceled)

29. (Currently Amended) ~~A remote control transmitter in accordance with claim 1, further comprising for enabling a user to control remotely a security system, the security system having a base unit with a communication module, the remote control transmitter comprising:~~

a processor;

a display coupled to the processor to display information to the user under control of the processor;

a first input device coupled to the processor to allow the processor to read state of the first input device, the state of the first input device being selected by the user;

a second input device coupled to the processor to allow the processor to read state of the second input device, the state of the second input device being selected by the user;

a transmitter coupled to the processor, the transmitter being capable of sending remote commands to the communication module of the base unit under control of the processor;

a memory module coupled to the processor, the memory module storing code executed by the processor; and

an input data port capable of receiving the code executed by the processor; processor;

wherein the processor under control of the code displays to the user various menu items on the display, enables the user to scroll among the menu items to point to one of the menu items using the first input device, enables the user to select the menu item that is pointed to by using the second input device, reads the code from the input data port, and stores the code in the memory module.

30. (Previously Presented) A remote control transmitter in accordance with claim 29, wherein the information on the display comprises at least one icon determined by the code read by the processor from the input data port.

Claims 31-34 (Canceled)

35. (Currently Amended) A remote control security system ~~in accordance with claim 33,~~
installed in a vehicle, the security system comprising:

a base unit comprising a base controller, security sensors coupled to the base controller, and a communication module; and

a remote control transmitter enabling a user to operate the base unit, the remote control transmitter comprising:

a processor;

a display coupled to the processor to display information to the user under control of the processor;

a first input device coupled to the processor to allow the processor to read state of the first input device, the state of the first input device being selected by the user;

a second input device coupled to the processor to allow the processor to read state of the second input device, the state of the second input device being selected by the user;

a transmitter coupled to the processor, the transmitter being capable of sending remote commands to the communication module of the base unit under control of the processor; and

a memory module coupled to the processor, the memory module storing code executed by the processor;

wherein:

the processor under control of the code displays to the user various menu items on the display, enables the user to scroll among the menu items to point to one of the menu items using the first input device, and enables the user to select the menu item that is pointed to by using the second input device;

the communication module and the transmitter communicate over a wireless link;

the first input device comprises a scroll wheel with an internal push-to-activate switch operable by depressing the scroll wheel in a radial direction of the scroll wheel toward center of the scroll wheel and releasing the scroll wheel, for enabling the user to select the state of the first input device by rotating the scroll wheel;

the second input device comprises the internal push-to-activate switch of the scroll wheel for enabling the user to select the state of the second user device by depressing the scroll wheel;

each of the menu items corresponds to at least one task of a plurality of tasks, the tasks of the plurality of tasks to be performed by the base unit and the remote control transmitter;

the menu items comprise a screen inversion menu item, the plurality of tasks comprises a screen inversion task, the screen inversion menu item corresponds to the screen inversion task; and

the code executed by the processor causes the processor to perform the screen inversion task and invert the display when the screen inversion menu item is selected.

Claims 36-51 (Canceled)

52. (Currently Amended) A remote controller in accordance with claim 46, for enabling a user to control a security system installed in a vehicle, the security system comprising a base unit with a communication module, the remote controller comprising:

means for processing data;

means for displaying information to the user under control of the means for processing;

first input means for assuming at least two states under control of the user, the first input means being coupled to the processing means to allow the processing means to read the states of the first input means;

second input means for assuming at least two states under control of the user, the second input means being coupled to the processing means to allow the processing means to read the states of the second input means;

a transmitter coupled to the processing means, the transmitter being capable of sending remote commands over an RF link to the communication module of the base unit under control of the processing means; and

memory means coupled to the processing means, the memory means storing code executed by the processing means;

wherein:

the processing means under control of the code displays to the user various menu items on the display means, allows the user to scroll among the menu items to point to one of the menu items using the first input means, and allows the user to select the menu item that is pointed to by using the second input means;

the first input means comprises a scroll wheel;

the user selects the state of the first input means by rotating the scroll wheel;

the second input means comprises an internal push-to-activate switch of the scroll wheel;

the user selects the state of the second input means by depressing the scroll wheel in a radial direction of the scroll wheel toward center of the scroll wheel and releasing the scroll wheel;

each of the menu items corresponds to at least one task of a plurality of tasks, the tasks of the plurality of tasks to be performed by the base unit and the remote controller;

the menu items comprise a screen inversion menu item, the plurality of tasks comprising a screen inversion task, the screen inversion menu item corresponding to the screen inversion task; and

the code executed by the processing means causes the processing means to perform the screen inversion task and invert the display means when the screen inversion menu item is selected.

Claims 53 and 54 (Canceled)

55. (Original) A remote controller in accordance with claim 52, wherein at least one of the tasks performed by the base unit is a function-programming task for configuring the base unit.

56. (Original) A remote controller in accordance with claim 55, wherein the function-programming task is selected from the list consisting of passive arming, active arming, enabling confirming chirps for arm and disarm state changes, disabling confirming chirps for arm and disarm state changes, turning on ignition locking of doors, and turning off ignition locking of doors.

Claims 57-67 (Canceled)